FRAMEWORK FOR IDENTIFYING COMPREHENSIVE PLAN DATA

HISTORIC CONTEXT:

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA

Geographic Organization: Piedmont/Western shore

Chronological/Development Period(s):

Modern Period (1945-present)

Prehistoric/Historic Period Theme(s):

Military (World War II/Post World War II Era) Engineering/Invention

Resource Type:

Category: Buildings

Historic Environment (urban, suburban, village, or rural): suburban

Historic Function(s) and Use(s): Laboratories for testing and development of military (Navy) weapons systems.

Known Design Source:

Eggers & Higgins, Architects, New York, New York Taylor & Fisher, Baltimore, Associates

Maryland Historical Trust State Historic Sites Inventory Form

Survey	No. M:3	3-19
Magi No	o.	
DOE	Yes	No

1. Name	(indicate preferred name)			
historic	White Oak X-Ray and Plas	tics Lab		
and/or common	Building 70			
2. Locat	ion			
street & number	10901 New Hampshire Av	enue		not for publication
city, town	Silver Spring	vicinity	of congression	nal district 4th
state	Maryland	county Mon	tgomery	
3. Classi	ification			
Category	Ownership	Status	Present Use	
district	X public	X occupied	agriculture	museum
X building(s)	private	unoccupied	commercial	park
structure	both	work in progress	educational	private residence
site	Public Acquisition	Accessible	entertainment	religious
object	in process	X yes: restricted	government	scientific
	being considered	yes: unrestricted	industrial	transportation
	not applicable	no	X military	other:
4. Owne	er of Property	(give names and mailing	addresses of all own	ers)
name	U.S. Navy - White Oak La	aboratory		
street & number	10901 New Hampshire Av	e. telephone no		
city, town	Silver Spring	state and zip	code MD 20903-50	00
5. Locat	ion of Legal I	Description		
courthouse, regis	try of deeds, etc.			liber
street & number				folio
city, town		state:		
6. Repre	esentation in I	Existing Historica	al Surveys	
title				
date	_ federal _ state	county local		
depository for su	rvey records			4.44
city, town		state:		

7. Description

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Condition		Check one	Check one	
excellent	deteriorated	unaltered	X original site	date of move
X good	ruins	X altered	moved	
fair	unexposed			

Prepare both a summary paragraph and a general description of the resource and its various elements as it exists today.

Constructed in 1947 as a storage facility, Building 70 was modified that same year to provide facilities for an X-ray laboratory. In 1948, the interior was again modified to create additional offices and laboratories. Surrounding structures were similarly used for the storage of materials and equipment.

Building 70 is a one story, flat-faced rectangular structure 200-feet long by 110-feet wide and 34-feet tall. The roof is flat with a parapet. Exterior brick is laid in American bond with five stretcher rows per header row. No foundation is visible with the brick, which extends upward from grade, terminating in simple rectangular limestone coping. Large roll-up doors provide vehicle entry to the double height interiors at the north and south ends of the building. Entrance is through simple doors located on each side of the building.

Each window is a simple metal frame and a stone sill. Individual windows are made up of an opening "awning" sash surrounded by rectangular fixed lights. Brick is recessed to form a large vertical frame around each set (upper and lower) of windows in a style similar to that found on the main buildings (e.g., Building 1-4 [M:33-14]) of the Front Area.

Originally, interior open space was maximized with two rows of I-beam roof supports. The I-beams run the length of the structure and support the raised central third of the roof which is elevated one-half story above the lateral sections of the roof. The side walls of this elevated section are glass, and serve as skylights for the natural lighting of the interior.

The I-beams also support the light metal roof trusses that carry the electrical, steam, and ventilation pipes and conduits through the open work area.

Principal modifications to this structure have been limited to the construction of the interior offices and laboratory space. In the northern half of the building, the originally open space has been divided into offices, workshops, and laboratories. A small plywood shed-style vestibule has been constructed over the door way just to the right of the large roll-up door on the south side of the building.

The configuration and equipment housed in the large work rooms has changed since construction. Currently, Building 70 houses the plastics R&D support laboratory and is used for a variety of design, engineering, and fabrication activities involving non-metallic materials. The X-ray laboratory, as a component of the Nondestructive Evaluation Laboratory, is still located there.

8. Significance

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Period	riod Areas of Significance—Check and justify below			
prehistoric	archaeology-prehistoric	community planning	landscape architecture	religion
1400-1499	archaeology-historic	conservation	law	science
500-1599	agriculture	economics	literature	sculpture
1600-1699	architecture	education	X military	social/ humanitarian
1700-1799	art	engineering	music	theater
1800-1899	commerce	exploration/settlement	philosophy	transportation
<u>X</u> 1900-	communications	industry	politics/government	other (specify)
		invention		
Specific dates 1945-1949 Builder/Architect U.S. Navy/Eggers & Higgins, N.Y.				
and/or	le Criteria:AB	_	C	
	le Exception:AB Significance:national		_6	

Prepare both a summary paragraph of significance and a general statement of history and support.

Statement of Significance

Discussions of the potential NRHP eligibility of Building 70 which is one of the eight World War II era structures that comprise the Front Area at NSWC White Oak are influenced by three factors:

- The apparent absence of unique and significant events/developments or persons associated primarily with Naval activities at White Oak;
- The absence of unique architectural styles or architecture that embodies the best characteristics of a style or period;
 and,
- The relatively recent age (e.g., construction of the first structure was begun in 1945) in light of the absence of overwhelming significance as noted above.

Historical background and significance:

Established when existing facilities of the Naval Ordnance Laboratory became insufficient to meet the increasing need for Research, Development, Testing, and Evaluation facilities late during World War II, White Oak was only one of a variety of such facilities established throughout the areas of Maryland and Virginia around Washington, D.C. These technical and administrative centers were developed to maximize accessibility to military headquarters in Washington while being located in areas that provided the environmental conditions necessary for the performance of their missions and the social atmosphere necessary to attract and keep skilled personnel. For White Oak, these resources included the scientific/academic community of Washington and the surrounding area of Maryland while still being somewhat removed from the city congestion and security problems presented by a more urban center. Also, electromagnetic experiments (conducted in areas east of the Front Area) required magnetically neutral conditions.

The White Oak facility that developed during the final years of World War II reflected administrative and research work that was task-specific, contributing to larger weapons system development programs that included work done at other naval facilities. White Oak remained a group of buildings housing offices, laboratories, and shops designed for the tasks at hand. Upon completion of a set of activities, the facilities were refitted for the next set of required tasks. As a result, the facilities in the Front Area of White Oak were continuously changing with new sets of equipment installed for as long as necessary, before they were replaced or moved to a new area of White Oak or to another naval facility.

The result of this role for White Oak was that, while it was an integral part of the Naval research and development program during World War II, there are no obvious manifestations of that role in the buildings or the setting of the Front Area of White Oak as they exist today, the generally high degree of integrity of location, setting and design not withstanding.

Building 70, as well as all of the structures of the Front Area, whether viewed individually or as a potential district, do not exhibit the integrity of association with events that have made a significant contribution to the broad pattern of history (i.e., NRHP Criteria a, 36 CFR 60.4).

The Naval Ordnance Laboratory, while housed at White Oak, included Naval and civilian personnel who may have achieved considerable personal or professional renown. However, such individual importance was not connected with their tenure at White Oak and so would not satisfy NRHP Criteria b.

Since White Oak is a product of Navy activities begun during World War II and a relatively recent entity, it is unlikely that Building 70, or any component of the environment of the Front Area has the potential to yield information important to history itself. White Oak's potential historic importance lies in the scientific developments that have occurred there. Information about these developments are likely to be contained in documentary sources such as scientific notes and archives that exist separately from the physical structures that constitute the Front Area of White Oak. In addition, detailed plans and drawings exist that document the buildings of the Front Area are archived by the Public Works Department at White Oak, further reducing the potential for NRHP eligibility under Criteria d.

Building 70 exhibits the principal design shared by the original administration/laboratory buildings of the Front Area at White Oak. The exterior facades of any of these buildings (with the exception of Building 71) have not been substantially modified and appear largely the same as they would have shortly after their construction.

Although this building has maintained its architectural integrity, the combination of the campus-like setting and the "starved classicism" style that is expressed is not unique in the architecture of the period, or in federal buildings in general in the region around Washington, D.C. The stylistic elements suggests the continuation of modern architectural influences on the more formal classical designs as expressed in other buildings designed during the 1920s and the 1930s.

The buildings of the Front Area do not appear to satisfy eligibility Criteria C, for inclusion in the NRHP since they are neither distinctive examples of this architectural type nor "a significant and distinguishable entity" (U.S. Department of the Interior 1991).

9. Major Bibliographical References

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Anonymous, 1959, "History of the Naval Ordnance Laboratory", manuscript on file at NSWC, White Oak, Maryland.

Craig, Lois, 1978, The Federal Presence: Architecture, Politics, and Symbols in United States Government Buildings, The MIT Press, Cambridge, Massachusetts.

Dittman, Richard B., 1973, letter to Stanley S. Jones, U.S. Naval Ordnance Laboratory, White Oak, Maryland, January 29, 1973, on file at Department of Public Works, NSWC, White Oak, Maryland.

Greenhorne & O'Mara, Inc., 1992, Historic and Archaeological Resources Protection (HARP) Plan for Naval Surface Warfare Center, White Oak, Maryland, on file at U.S. Navy, Engineering Field Activity-Chesapeake, Washington, Navy Yard, Washington, D.C.

Smaldone, Joseph P., 1977, History of the White Oak Laboratory 1945-1975, Naval Surface Weapons Center, Silver Spring, Maryland.

U.S. Naval Ordnance Laboratory, 1949, The U.S. Naval Ordnance Laboratory; General and Descriptive Information.

10. Geographical Data Acreage of nominated property 7.5 Min. Quadrangle scale Beltsville, MD Quadrangle name **UTM References** do NOT complete UTM references Zone Northing Zone Easting Northing Easting D C F Н G Verbal boundary description and justification List all states and counties for properties overlapping state or county boundaries 031 code county Montgomery state Maryland code state code county

11. Form Prepared By

name/title	Mark Rosenzweig, Ph.D./Chief Archaeologist			
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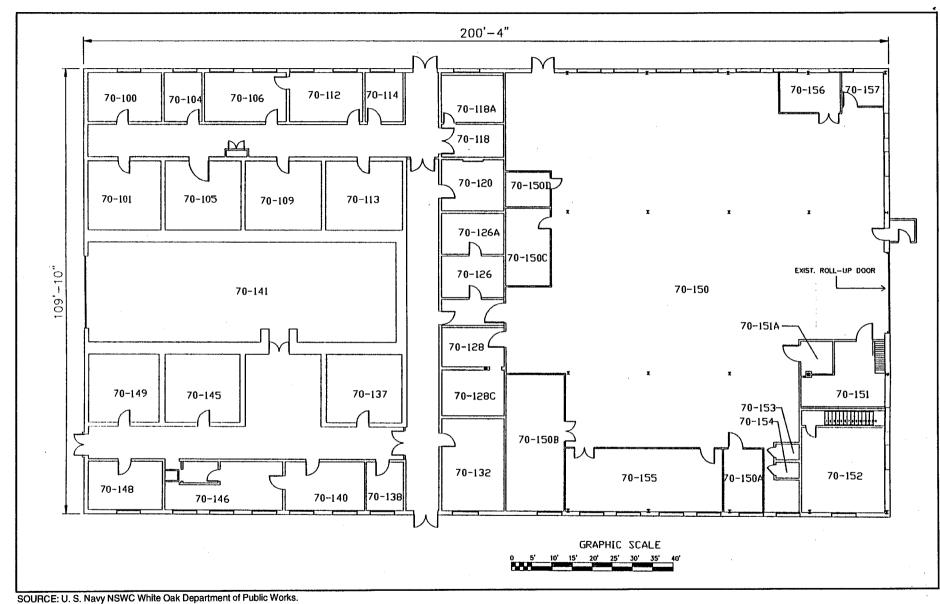
The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

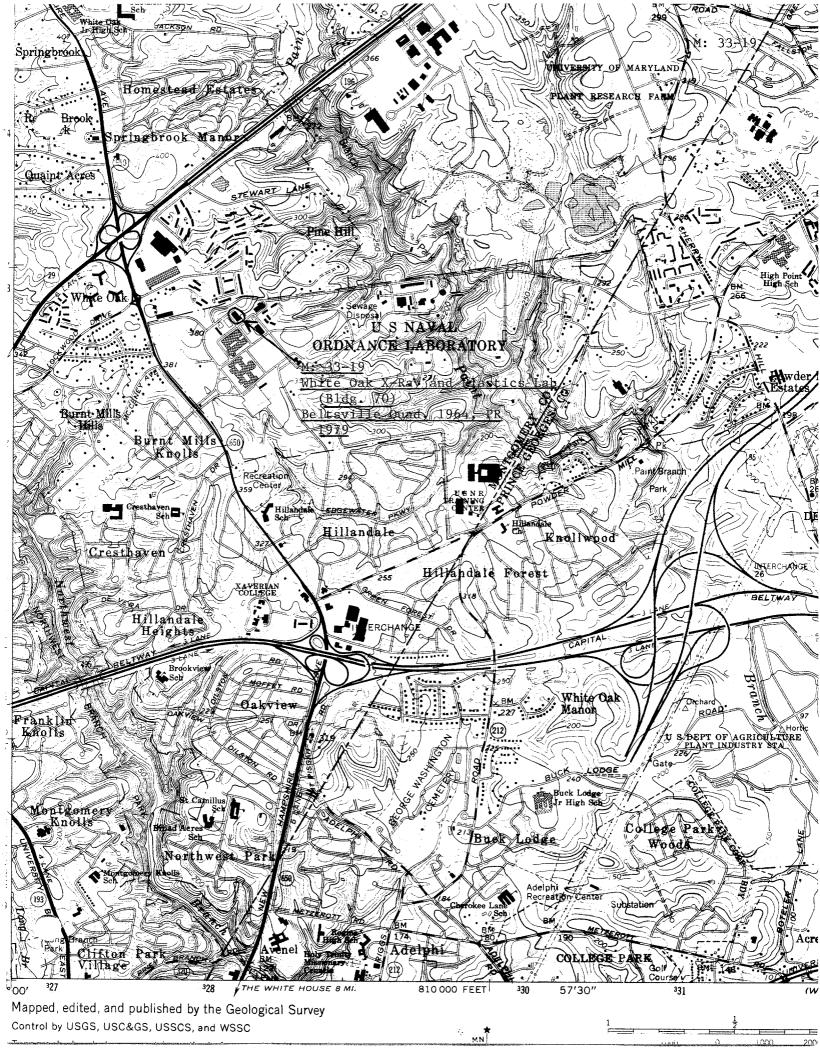
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Maryland Historical Trust DHCP/DHCD 100 Community Place Crownsville, MD 21032-2023 514-7600

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SURVEY NO. M:33-19, BUILDING 70
NSWC WHITE OAK, SILVER SPRING, MONTGOMERY COUNTY, MARYLAND





U M:33- 19 NSWC white Oak Laboratory X-RAY & Plastics LAB Bailding 70 Montgomery Co MD Ecology & Environment one Nov 1993 US NAVY EFA CHESAPRAKA Looking NE Selevation



(2) M: 33-19 NSWE white Oak Laboratory X. RAY & Plastics LAB Building 70 Ecology à Environnent Am Nov 1993 US NAVY. BEA CHESHPERKE Looking NFZ West elevation of Suldn 70



M: 33-19 Nowe white cale haboratory X-RAY & Plustics Lat Building 70 Ecology & Environment, Luc. gan 1994 US NAVY- EFA CHESAperke Looking NNE - Sand Welevation taken from near of Bulshing 25